

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in this application.

1. (Currently Amended) A heat exchanger tube comprising:
a tube body portion constituting an outer shell of flow passages for flowing a medium, and corrugated inner fins for dividing the flow passages, the tops of the inner fins are flat tubes brazed to the inner surface of the tube body portion and in which the medium performs heat exchange with heat conducted to the tube,

wherein:wherein a brazing material which is required for brazing the tops of the inner fins and the inner surface of the tube body portion is not clad to a first material constituting the tube body portion but clad to a second material constituting the inner fins,

wherein ends of the second material in its breadth direction are brazed with the first material by the brazing material which is clad to the second material, and

wherein both ends of the first material in its breadth direction are engaged and brazed with an end of the second material in its breadth direction sandwiched at one end of the tube in its breadth direction so as not to separate from each other.

2. (Original) The heat exchanger tube according to claim 1, wherein a thickness of a clad layer of the brazing material in the second material is 5 to 10% in ratio with respect to the thickness of the second material.

3. (Previously Presented) The heat exchanger tube according to claim 1, wherein the second material has a thickness of 0.1 mm or less.

4. (Original) The heat exchanger tube according to claim 3, wherein the second material has a thickness of 0.05 to 0.07 mm.

5. (Previously Presented) The heat exchanger tube according to claim 1, wherein the first material has a thickness of 0.25 mm or less.

6. (Original) The heat exchanger tube according to claim 5, wherein the first material has a thickness of 0.18 to 0.24 mm.

7. (Previously Presented) The heat exchanger tube according to claim 1, wherein the tube has a thickness of 1.2 mm or less.

8. (Original) The heat exchanger tube according to claim 7, wherein the tube has a thickness of 0.8 to 1.2 mm.

9. (Previously Presented) The heat exchanger tube according to claim 1, wherein the tube has a width of 16 mm or less.

10. (Original) The heat exchanger tube according to claim 9, wherein the tube has a width of 12 to 16 mm.

11. (Previously Presented) The heat exchanger tube according to claim 1, wherein the flow passages divided by the inner fins have an equivalent diameter of 0.559 mm or less.

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12. (Original) The heat exchanger tube according to claim 11, wherein the flow passages divided by the inner fins have an equivalent diameter of 0.254 mm to 0.559 mm.

13. (Previously Presented) The heat exchanger tube according to claim 1, wherein the tops of the inner fins have a pitch of 1.0 mm or less.

14. (Previously Presented) The heat exchanger tube according to claim 1, wherein an Al--Zn alloy layer is formed on the surface of the first material which becomes an outer shell of the tube.

15. (Previously Presented) The heat exchanger tube according to claim 1, wherein the tops of the inner fins are flat.

16. (Canceled)

17. (Canceled)

18. (Previously Presented) The heat exchanger tube according to claim 1, wherein the portion between the tops of the inner fins is not perpendicular with respect to the central axis of the tube in its breadth direction.

19. (Previously Presented) The heat exchanger tube according to claim 1, wherein: the tube is a constituting member of the heat exchanger, and the heat exchanger is produced by assembling the tube and other constituting members into one body and brazing the assembled body in a furnace, and the brazing

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material clad to the second material melts when brazed in the furnace earlier than the brazing material which melts from the other constituting members and penetrates into the flow passages to prevent the flow passages from being clogged.

20. (Currently Amended) ~~The heat exchanger tube according to claim 19A~~ heat exchanger tube comprising:

a tube body portion constituting an outer shell of flow passages for flowing a medium, and corrugated inner fins for dividing the flow passages, the tops of the inner fins are flat tubes brazed to the inner surface of the tube body portion and in which the medium performs heat exchange with heat conducted to the tube,

wherein a brazing material which is required for brazing the tops of the inner fins and the inner surface of the tube body portion is not clad to a first material constituting the tube body portion but clad to a second material constituting the inner fins,

wherein the tube is a constituting member of the heat exchanger, and the heat exchanger is produced by assembling the tube and other constituting members into one body and brazing the assembled body in a furnace, and the brazing material clad to the second material melts when brazed in the furnace earlier than the brazing material which melts from the other constituting members and penetrates into the flow passages to prevent the flow passages from being clogged, and

wherein the brazing material clad to the second material has a melting point lower than that of the brazing material which melts from the other constituting members and penetrates into the flow passages.

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21. (Original) The heat exchanger tube according to claim 19, wherein the brazing material clad to the second material melts earlier than the brazing material which melts from the other constituting members and penetrates into the flow passages because the tube has a thermal resistance lower than that of the other constituting members.

22. (Previously Presented) The heat exchanger tube according to claim 1, wherein among plural flow passages divided by the inner fins, an equivalent diameter of the flow passage, which is positioned at the lowest position when brazing in the furnace, or individual equivalent diameters of the flow passages positioned at the lowest position and flow passages positioned nearby when brazing in the furnace are larger than a whole average of the equivalent diameters of the plural flow passages divided by the inner fins.

23-46. (Canceled)

47. (New) A heat exchanger comprising:

a tube body portion constituting an outer shell for flow passages through which flowing media flow, the tube body portion being of a first material; and

corrugated inner fins that divide the flow passages, the inner fins being of a second material, tops of the inner fins being flat tubes brazed to an inner surface of the tube body portion and through which a flowing medium exchanges heat with heat of the tube body portion,

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wherein the tops of the inner fins are brazed to the inner surface of the tube body portion by a brazing material that is clad to a second material and not clad to a first material, and

wherein both ends of the first material in its breadth direction are

engaged with each other,

brazed with each other, and

brazed with an end of the second material in its breadth direction sandwiched at one end of the tube body portion in its breadth direction so that the ends of the fist material do not to separate from each other.